Summary of Public Water Systems

Kentucky River ADD Water Planning Area

September, 2001

KENTUCKY RIVER ADD PLANNING AREA

Kentucky River Area Development District 381 Perry County Park Road Hazard, KY 41701 (606) 436-3158

The Kentucky River Area Development District region had an estimated population of 124,770 (47,819 households) in 1999 with a projected population of 127,000 (54,000 households) in 2020. There are 780 miles of water lines in the region serving about 51,600 people, or about 40% of the region's population.

Estimated populations and public water service for the eight counties in the region is given below:

County	1999 Pop	On Public
Breathitt	15,600	5,100 (33%)
Knott	17,500	2,400 (14%)
Lee	7,900	5,900 (75%)
Leslie	13,400	5,400 (40%)
Letcher	26,500	8,000 (30%)
Owsley	5,300	3,700 (70%)
Perry	31,100	18,700 (60%)
Wolfe	7,500	2,500 (33%)
Region	125,000	51,700 (41%)

85 public and semi-public water systems serve the region: 25 community systems--13 municipal, 3 water districts, 8 private, 1 water association; and 60 non-community systems. There are 8 small (501 to 3,300 people served) community systems and 8 very small (500 or fewer people served) community systems.

BREATHITT COUNTY

Breathitt County had an estimated population of 15,563 (5,938 households) in 1999 with a projected population of 16,800 (7,200 households) in 2020. Public water is provided to 4,800 people, or about 1/3 of the county's residents.

Before a significant number of rural Breathitt Countians can have access to potable water, several issues must be addressed. Problems with the existing plant prevent it from treating the design capacity of 1.5 million gpd. An upgrade to this plant, or possibly a new plant on the Middle Fork of the Kentucky River around the intersection of Hwy 315 and Hwy 30 would be an almost immediate need. Breathitt County could also be well served by a regional water plant located on Buckhorn Lake. There have also been a couple of high velocity wells located within the county. One well is near Van Cleve and one along Hwy 52 in the eastern section of the county. Regardless of the method, Breathitt County will need both increased plant capacity and another source of water in addition to the North Fork in order to serve the needs of the entire county.

Breathitt County is in the process of forming a county water and sewer district. The owners in the project listing in this report will be listed as the Jackson Municipal Water Works. However, should the new county district be established, they will be the owners of the majority of the projects. Also, the City of Buckhorn would better serve about 50 customers in the southwestern portion of the county.

Breathitt County is served by 8 public or semi-public water systems: 1 municipal water system--Jackson Municipal Water--2 private community systems, and 5 non-community systems.

Lackson	Munici	inal Wa	ater Works
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Total Water Produced 1997 (gallons):

Water Sold 1997 (gallons):

PWSID: 0130208

Jackson Municipal Water Works	PWSID: 0
System Type:	COMMUNITY
Owner Type:	MUNICIPAL
Surface Source:	NORTH FORK OF KENTUCKY RIVER
Purchase Source:	
Well Source:	
Sells Water to:	
Treatment Plant Capacity (MGD):	1.50
Percent Daily Average Production:	41.00
Total Tank Storage Capacity (gallons):	850,000.00
Total Service Connections:	2,037.00
Number of Employees:	14.00
Treatment Operator Class:	2D
Distribution Operator Class:	3A
Customer Rate for 1,000 Gallons:	7.66
O/M costs 1997:	Not available
O/M costs per Service Connection:	Not available
Net Revenue 1997:	Not available

Not available

Not available

The Jackson Municipal Water Works draws its water from the North Fork of the Kentucky River. The system currently serves 1,751 households. Plant capacity is 1.5 million gpd, with a daily production of 800,000 gallons. Current storage capacity is 850,000 gallons. Rates are \$14.32 for the first 2000 gallons within the city, and outside the city \$16.32 for the first 2000 gallon. The Water Works employs 14 full time people.

Other Systems

Shouse's Mobile Home Park #2

Shouse's Mobile Home Park #2 is located in Breathitt County. The system serves a population of 35 and has 10 service connections. The private, community system water source is wells.

Mt. Carmel High/Boarding School

Mt. Carmel High/Boarding School is located in Breathitt County. The system serves a population of 150 and has 1 service connection. The private, community system has treatment capacity of 10,000 gallons per day and the water source is wells.

Oakdale Christian High School

Oakdale Christian High School is located in Breathitt County. The system serves a population of 60 and has 13 service connections. The local, non-transient, non-community system has treatment capacity of 250 gallons per day and the water source is wells.

Rousseau Elementary School

Rousseau Elementary School is located in Breathitt County. The system serves a population of 200 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 15,000 gallons per day and the water source is wells.

Camp Lewis

Camp Lewis is located in Breathitt County. The system serves a population of 40 and has 1 service connection. The private, transient, non-community system has treatment capacity of 1,500 gallons per day and the water source is wells.

Kentucky Mountain Bible College

Kentucky Mountain Bible College is located in Breathitt County. The system serves a population of 86 and has 14 service connections. The private, non-transient, non-community system has treatment capacity of 12,000 gallons per day. The water source is surface water from Middle Fork of the Kentucky River.

Highland Turner Elementary School

Highland Turner Elementary School is located in Breathitt County. The system serves a population of 347 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 25,000 gallons per day and the water source is wells.

KNOTT COUNTY

Knott County had an estimated population of 17,471 (6,587 households) in 1999 with a projected population of 17,300 (7,300 households) in 2020. Public water is provided to 890 customers, or about 14 percent of the county's residents.

Along with several planned expansions into residential areas, the county also contains a site for a proposed prison that could eventually need 500,000 gpd of potable water. Current sources of water and plant capacities are unable to meet this demand. Both the City of Hindman and the Caney Creek Water District have passed resolutions of intent to form the Carr Creek Water Commission. The City of Vicco and The Letcher County Water and Sewer District has also passed the same resolutions. The commission would have the authority to wholesale treated water from a proposed treatment plant at the Carr Creek Lake in Knott County. Early estimates from the Corps of Engineers indicate that approximately two million gallons per day could be withdrawn for each of the participating counties of Knott, Letcher, and Perry. This plant, along with existing sources, could supply Knott County's needs well into the foreseeable future.

The residents of Knott county are served by 35 public and semi-public water systems: 2 municipal systems, the Hindman Water System and the City of Vicco; 1 water district, Caney Creek Water District; 3 private community systems; and 19 non-community systems.

The water sources for the City of Hindman and the Caney Creek Water District are wells.

Hindman Water Department	PWSID: 0600198
System Type:	COMMUNITY
Owner Type:	MUNICIPAL
Surface Source:	
Purchase Source:	BEAVER ELKHORN MASTER METER
Well Source:	Yes
Sells Water to:	
Treatment Plant Capacity (MGD):	0.32
Percent Daily Average Production:	59.00
Total Tank Storage Capacity (gallons):	205,000.00
Total Service Connections:	550.00
Number of Employees:	3.00
Treatment Operator Class:	1D
Distribution Operator Class:	2A
Customer Rate for 1,000 Gallons:	5.20
O/M costs 1997:	Not available
O/M costs per Service Connection:	Not available
Net Revenue 1997:	Not available
Total Water Produced 1997 (gallons):	Not available
Water Sold 1997 (gallons):	Not available
Unaccounted-for Water 1997 (%):	Not available

The Hindman Water System gets its water from 2 underground wells. The system currently serves about 550 customers. Permitted withdrawal from the wells is 323,000 gpd and the average daily withdrawal is 106,000 gallons. In addition, the city purchases 1,100,000 gallons a month from Beaver Elkhorn Water in Floyd County to serve customers on Hwy 550 east of Hindman to the Floyd County line. The Hindman Water System operates a treatment plant with a capacity of 323,000 gpd. Current storage capacity for the system is 205,000 gallons. Current rates are \$26.00 per 5,000 gallons. The Hindman Water System employs 3 people.

Caney Creek Water District	PWSID: 0600062
System Type:	COMMUNITY
Owner Type:	WATER DISTRICT
Surface Source:	
Purchase Source:	
Well Source:	Yes
Sells Water to:	
Treatment Plant Capacity (MGD):	0.10
Percent Daily Average Production:	60.00
Total Tank Storage Capacity (gallons):	208,000.00
Total Service Connections:	108.00
Number of Employees:	1.00
Treatment Operator Class:	1D
Distribution Operator Class:	2A
Customer Rate for 1,000 Gallons:	3.42
<u>O/M costs 1997:</u>	57,338.00
O/M costs per Service Connection:	473.87
Net Revenue 1997:	50,314.00
Total Water Produced 1997 (gallons):	18,683,200.00
Water Sold 1997 (gallons):	15,747,000.00
Unaccounted-for Water 1997 (%):	0.76

The Caney Creek Water District gets its water from 8 underground wells. The system currently serves 108 customers, including Alice Lloyd College. They have a plant capacity of 100,000 gpd with an average daily production of 80,000 gallons. Current storage capacity is 208,000. Rates are a \$12.38 minimum for the first 2,000 gallons. They have one full time employee.

City of Vicco

The City of Vicco, in Perry County, serves about 30 households in the extreme southwestern section of Knott County.

Other Systems

Jamestown Village Mobile Home Park

Jamestown Village Mobile Home Park is located in Knott County. The system serves a population of 327 and has 99 service connections. The private, community system has treatment capacity of 57,600 gallons per day and the water source is wells.

Beaver Creek Elementary School

Beaver Creek Elementary School is located in Knott County. The system serves a population of 475 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 4,0000 gallons per day and the water source is wells.

Holly Hills Shopping Center

Holly Hills Shopping Center is located in Knott County. The system serves a population of 300 and has 12 service connections. The private, transient, non-community system has treatment capacity of 15,000 gallons per day and the water source is wells.

Emmalena Elementary School

Emmalena Elementary School is located in Knott County. The system serves a population of 341 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 30,000 gallons per day and the water source is wells

Hindman Elementary School

Hindman Elementary School is located in Knott County. The system serves a population of 650 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 48,000 gallons per day and the water source is wells.

Knott County Board of Education Building

Knott County Board of Education Building is located in Knott County. The system serves a population of 100 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 8000 gallons per day and the water source is wells.

Jones Fork Elementary School

Jones Fork Elementary School is located in Knott County. The system serves a population of 240 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 15,000 gallons per day and the water source is wells.

Carr Creek Elementary School

Carr Creek Elementary School is located in Knott County. The system serves a population of 720 and has 2 service connections. The local, non-transient, non-community system has treatment capacity of 49,000 gallons per day and the water source is wells.

Beckham Combs Elementary School

Beckham Combs Elementary School is located in Knott County. The system serves a population of 250 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 32,000 gallons per day and the water source is wells.

Camp Nathaniel

Camp Nathaniel is located in Knott County. The system serves a population of 200 and has 21 service connections. The private, transient, non-community system has treatment capacity of 32.000 gallons per day and the water source is wells.

Carr Creek State Resort Park

Carr Creek State Resort Park is located in Knott County. The system serves a population of 300 and has 3 service connections. The federal, transient, non-community system has treatment capacity of 24,000 gallons per day. The water source is surface water from a surface impoundment.

Corps Of Engrs/Dam Site

Corps Of Engrs/Dam Site is located in Knott County. The system serves a population of 692 and has 5 service connections. The federal, transient, non-community system has treatment capacity of 40,000 gallons per day and the water source is wells.

Corps Of Engrs/Littcarr

Corps Of Engrs/Littcarr is located in Knott County. The system serves a population of 100 and has 5 service connections. The federal, transient, non-community system has treatment capacity of 24,000 gallons per day and the water source is wells.

Caney Creek Elem School

Caney Creek Elem School is located in Knott County. The system serves a population of 200 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 15,000 gallons per day and the water source is wells.

Mountain Dental Services

Mountain Dental Services is located in Knott County. The system serves a population of 15 and has 15 service connections. The private, transient, non-community system water source is wells.

Hindman Kwik Mart

Hindman Kwik Mart is located in Knott County. The system serves a population of 100 and has 1 service connection. The private, transient, non-community system has treatment capacity of 5,000 gallons per day. The water source is rain water from a cistern.

Lakeview Headstart

Lakeview Headstart is located in Knott County. The system serves a population of 75 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 7,500 gallons per day and the water source is wells.

Bearville Market

Bearville Market is located in Knott County. The system serves a population of 100 and has 1 service connection. The private, transient, non-community system has treatment capacity of 12,000 gallons per day and the water source is wells.

Hindman Dairy Cheer

Hindman Dairy Cheer is located in Knott County. The system serves a population of 25 and has 1 service connection. The private, transient, non-community system has treatment capacity of 6,000 gallons per day and the water source is wells.

Hwy 80 Motel

Hwy 80 Motel is located in Knott County. The system serves a population of 25 and has 15 service connections. The private, transient, non-community system has treatment capacity of 6,000 gallons per day and the water source is wells.

Red Fox Mini Mart & Restaurant

Red Fox Mini Mart & Restaurant is located in Knott County. The system serves a population of 25 and has 2 service connections. The private, transient, non-community system water source is wells.

Mousie Market

Mousie Market is located in Knott County. The system serves a population of 75 and has 2 service connections. The private, transient, non-community system water source is wells.

LEE COUNTY

Lee County had an estimated population of 7,935 (3,306 households) in 1999 with a projected population of 8,200 (3,600 households) in 2020. About 3/4 of the residents of Lee County are provided with public water.

The City of Beattyville operates the only treatment plant in the county and they also sell water to the Southside Water Association in the southern portion of the county. A large percentage of Lee Countians have access to potable water and getting water to everyone feasible by the year 2020 should not be a problem. Water source and plant capacity should be sufficient to reach this goal. Current water expansion plans will also tie this system in with the Jackson County system in the southwestern part of the county.

Lee County is served by 4 public and semi-public water systems: 1 municipal system, Beattyville Water Plant; 1 water association, Southside Water Association; 1 private community system; and 1 non-community system.

Beattyville Water Works PWSID: 0650024

System Type:COMMUNITYOwner Type:MUNICIPAL

Surface Source: NORTH FORK KENTUCKY RIVER

Purchase Source: Well Source:

Sells Water to: SOUTHSIDE WATER ASSOCIATION

Treatment Plant Capacity (MGD): 1.00 **Percent Daily Average Production:** 52.00 Total Tank Storage Capacity (gallons): 900,000.00 **Total Service Connections:** 2,200.00 **Number of Employees:** 10.00 **Treatment Operator Class:** 2D **Distribution Operator Class:** 3A **Customer Rate for 1,000 Gallons:** 5 25

O/M costs 1997:Not availableO/M costs per Service Connection:Not availableNet Revenue 1997:Not availableTotal Water Produced 1997 (gallons):Not availableWater Sold 1997 (gallons):Not availableUnaccounted-for Water 1997 (%):Not available

The Beattyville Water Plant gets its water from the North Fork of the Kentucky River. The system serves 1,730 households and also sells water to the Southside Water Association. In addition, Beattyville Water purchases 10,000 gpd from Jackson County. Plant capacity is 1 million gpd, with a daily average production of 600,000. Current storage capacity is 900,000 gallons. Rates are \$10.50 for the first 2000 gallons inside the city and \$14.00 outside. The System employs 10 full time people.

Southside Water Association

PWSID: 0650412

System Type: COMMUNITY

Owner Type: WATER ASSOCIATION

Surface Source:

Purchase Source: BEATTYVILLE MASTER METER

0.00

0.00

6.87

Well Source: Sells Water to:

Treatment Plant Capacity (MGD): Percent Daily Average Production:

Total Tank Storage Capacity (gallons): 120,000.00 533.00 **Total Service Connections:**

2.00 Number of Employees: **Treatment Operator Class:** 1D

Distribution Operator Class:

Customer Rate for 1,000 Gallons: 7.99 O/M costs 1997: 136,079.00 O/M costs per Service Connection: 257.24 Net Revenue 1997: 21,762.00 Total Water Produced 1997 (gallons): 0.00 Water Sold 1997 (gallons): 23,309.00

100,000 gallons. There are currently no plans for expansion.

The Southside Water Association purchases about 73,000 gpd from the Beattyville Water Plant and they serve 525 households. They have a storage capacity of

Other Systems

Farmers Ridge Water District

Unaccounted-for Water 1997 (%):

Farmers Ridge Water District is located in Lee County. The system serves a population of 200 and has 60 service connections. The district purchases water from Jackson County Water Co.

Cathedral Domaine Camp

Cathedral Domaine Camp is located in Lee County. The system serves a population of 300 and has 1 service connection. The private, transient, non-community system has treatment capacity of 6,500 gallons per day. The water source is springs.

LESLIE COUNTY

Leslie County had an estimated population of 13,390 (4,900 households) in 1999 with a projected population of 12,800 (5,500 households) in 2020. Public water is provided to about 40 percent of the county's residents.

In order to serve the entire county, an additional source of water is needed. There are no known large sources of underground water in the county, so the best potential source would be Buckhorn Lake. A treatment plant located on the lake could also serve several surrounding counties as either a primary or secondary source.

The Hyden–Leslie Water District is the only community service provider in the county: there are also 3 non-community water systems in the county

Hyden-Leslie County Water District	PWSID: 0660204
C4 T	COMMINITY

RIVER

System Type:	COMINIONITY
Owner Type:	WATER DISTRICT
Surface Source:	MIDDLE FORK KENTUCKY
Purchase Source:	

Well Source: Sells Water to:

Treatment Plant Capacity (MGD): 0.79 **Percent Daily Average Production:** 91.00 Total Tank Storage Capacity (gallons): 930,000.00 2,053.00 **Total Service Connections:** Number of Employees: 8.00 **Treatment Operator Class:** 2D **Distribution Operator Class:** 3A **Customer Rate for 1,000 Gallons:** 9.65

O/M costs 1997:Not availableO/M costs per Service Connection:Not availableNet Revenue 1997:Not availableTotal Water Produced 1997 (gallons):Not availableWater Sold 1997 (gallons):Not availableUnaccounted-for Water 1997 (%):Not available

Hyden-Leslie draws its water from the Middle Fork of the Kentucky River. Current plant capacity is 790,000 gallons per day and average daily average production is about 700,000 gallons. Storage capacity is 934,000 gallons. Proposed line extensions also include plant and existing line upgrades along with increased storage capacities. Current water rates are \$17.30 for the first 2,000 gallons. There are 8 full time employees.

Other Systems

Hayes Lewis Elementary School

Hayes Lewis Elementary School is located in Leslie County. The system serves a population of 425 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 40,000 gallons per day and the water source is wells.

Big Creek Elementary School

Big Creek Elementary School is located in Leslie County. The system serves a population of 212 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 16,000 gallons per day and the water source is wells.

Shamrock Coal Co/Middle Fork

Shamrock Coal Co/Middle Fork is located in Leslie County. The system serves a population of 200 and has 1 service connection. The federal, non-transient, non-community system has treatment capacity of 18,000 gallons per day and the water source is wells

LETCHER COUNTY

Letcher County had an estimated population of 26,479 (10,240 households) in 1999 with a projected population of 25,800 (11,300 households) in 2020. Public water is provided to about 30 percent of the county's residents.

In 1998 Letcher County formed the Letcher County Water and Sewer District. They are not yet providing water to residents, but they do have an agreement with the Blackey Water Treatment Plant to purchase wholesale water so they can serve nearly 800 households in the Isom/Jeremiah area. The district also passed a resolution of intent to join the Carr Creek Water Commission.

The biggest problem facing Letcher County is a reliable source of water. There is insufficient surface water to serve the entire county's future needs. There are a couple of deep mine wells that may provide a source, but the most likely source would be Carr Creek Lake. The proposed Carr Creek Water Treatment Plant, to be owned by the Carr Creek Water Commission, of which Letcher County is a part, could provide up to 2 million gallons of water per day to the county. Most of the county's long range projects in this report have no source of water currently available. However, if a treatment plant is placed on Carr Creek Lake, this plant, along with existing water supplies such as deep wells should be adequate to serve Letcher County for many years.

There are currently 21 public and semi-public water service providers in the county: 5 municipal systems--the Jenkins Municipal System, the Fleming-Neon Water Company, the Blackey Water Treatment Plant, the Whitesburg Municipal Water System, and Jackhorn Water Supply; and 16 non-community systems.

Whitesburg Municipal Water Work	PWSID: 0670466

Whitesburg Wullerpur Wutter Works	
System Type:	COMMUNITY
Owner Type:	MUNICIPAL
Surface Source:	KENTUCKY RIVER
Purchase Source:	
Well Source:	
Sells Water to:	
Treatment Plant Capacity (MGD):	0.86
Percent Daily Average Production:	44.00
Total Tank Storage Capacity (gallons):	1,100,000.00
Total Service Connections:	680.00
Number of Employees:	8.00
Treatment Operator Class:	2D
Distribution Operator Class:	3A
Customer Rate for 1,000 Gallons:	Not available
<u>O/M costs 1997:</u>	Not available
O/M costs per Service Connection:	Not available
Net Revenue 1997:	Not available
Total Water Produced 1997 (gallons):	Not available
Water Sold 1997 (gallons):	Not available
Unaccounted-for Water 1997 (%):	Not available

The Whitesburg Water Plant gets its water from the North Fork of the Kentucky River. The system currently serves 680 households. Plant capacity is 864,000 gpd, with an average daily production of 280,000 gallons. Storage capacity is 1,100,000 gallons. They employ 8 full time people.

Several problems exist within the Whitesburg facility. There have been many problems with the recently expanded plant. The system has a very large amount of debt, and there is an old ordinance in place that effectively doubles the rate structure for customers outside the city limits. There is also a very limited source of water.

Blackey Water System	PWSID: 0670462
System Type:	COMMUNITY
Owner Type:	MUNICIPAL
Surface Source:	NORTH FORK KENTUCKY RIVER
Purchase Source:	
Well Source:	
Sells Water to:	
Treatment Plant Capacity (MGD):	0.15
Percent Daily Average Production:	36.00
Total Tank Storage Capacity (gallons):	150,000.00
Total Service Connections:	286.00
Number of Employees:	1.00
Treatment Operator Class:	1D
Distribution Operator Class:	2A
Customer Rate for 1,000 Gallons:	10.27
O/M costs 1997:	Not available
O/M costs per Service Connection:	Not available
Net Revenue 1997:	Not available
Total Water Produced 1997 (gallons):	Not available
Water Sold 1997 (gallons):	Not available
Unaccounted-for Water 1997 (%):	Not available

The Blackey Water Treatment Plant draws its water from the North Fork of the Kentucky River. The system has been on line less than a year, and serves 270 households. The plant has a capacity of 150,000 gpd (easily expandable), and has an average daily withdrawal of 18,000 gallons. Storage capacity is 150,000 gallons. The current rates are \$20.54 for the first 2,000 gallons. They have one full time employee.

Fleming-Neon Water Company		PWSID: 0670279
System Type:	COMMUNITY	
Owner Type:	MUNICIPAL	
Surface Source:	PRIMARY	
Purchase Source:		
Well Source:		
Sells Water to:		
Treatment Plant Capacity (MGD):	0.43	
Percent Daily Average Production:	57.00	
Total Tank Storage Capacity (gallons):	50,000.00	
Total Service Connections:	979.00	
Number of Employees:	5.00	
Treatment Operator Class:	2D	

Distribution Operator Class: 2A

Customer Rate for 1,000 Gallons:Not availableO/M costs 1997:Not availableO/M costs per Service Connection:Not availableNet Revenue 1997:Not availableTotal Water Produced 1997 (gallons):Not availableWater Sold 1997 (gallons):Not availableUnaccounted-for Water 1997 (%):Not available

The Fleming-Neon Water Company gets its water from 2 abandoned deep mines. The system serves 905 households. Plant capacity is 430,000 gpd, with an average daily production of 210,000 gallons. Current storage capacity is 200,000 gallons. Rates are \$9.25 minimum for the first 2,000 gallons. The water company employs 5 full time people.

System Type:COMMUNITYOwner Type:MUNICIPALSurface Source:ELKHORN LAKEPurchase Source:

Purchase Source
Well Source:

Sells Water to:
Treatment Plant Capacity (MGD):

Treatment Plant Capacity (MGD):1.00Percent Daily Average Production:45.00Total Tank Storage Capacity (gallons):415,000.00Total Service Connections:0.00Number of Employees:10.00Treatment Operator Class:2DDistribution Operator Class:3ACustomer Rate for 1,000 Gallons:5.66

O/M costs 1997:Not availableO/M costs per Service Connection:Not availableNet Revenue 1997:Not availableTotal Water Produced 1997 (gallons):Not availableWater Sold 1997 (gallons):Not availableUnaccounted-for Water 1997 (%):Not available

The Jenkins Municipal System draws its water from Elkhorn Lake Reservoir. The system serves 953 customers. Plant capacity is 1 million gpd, with an average daily production of 400,000 gallons. Current storage capacity is 415,000 gallons. The water and sewer rate schedule is somewhat complex, but the average customer with water only would pay \$22.66 for 4,000 gallons of water. The City of Jenkins was selected to be a participant in the Governor's Community Development Initiative. This, along with the completion of new Hwy 23 is expected to create significant growth in the area. They will need to find an additional source of water and possibly upgrade their plant in order to meet this increased demand. The city also has an immediate need to replace and relocate about 5 miles of line running to the Marshall Branch area..

Other Systems

Jackhorn Water Supply

Jackhorn Water Supply is located in Letcher County. The system serves a population of 200 and has 60 service connections. The community system has treatment capacity of 15,000 gallons per day. The water source is ground water from an abandoned mine.

Beckham Bates Elementary

Beckham Bates Elementary is located in Letcher County. The system serves a population of 310 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 30,000 gallons per day and the water source is wells.

Arlie Bogg Elementary School

Arlie Bogg Elementary School is located in Letcher County. The system serves a population of 320 and has 32 service connections. The local, non-transient, non-community system has treatment capacity of 35,000 gallons per day and the water source is wells.

Double Quick Mart

Double Quick Mart is located in Letcher County. The system serves a population of 400 and has 1 service connection. The private, non-transient, non-community system has treatment capacity of 14,000 gallons per day and the water source is wells.

Joe's Drive In

Joe's Drive In is located in Letcher County. The system serves a population of 100 and has 1 service connection. The private, transient, non-community system has treatment capacity of 12,000 gallons per day and the water source is wells.

Holcomb Custard Stand

Holcomb Custard Stand is located in Letcher County. The system serves a population of 50 and has 1 service connection. The private, transient, non-community system has treatment capacity of 12,000 gallons per day and the water source is wells.

Mayking Headstart Center

Mayking Headstart Center is located in Letcher County. The system serves a population of 50 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 100 gallons per day and the water source is wells.

Consol Of Ky

Consol Of Ky. is located in Letcher County. The system serves a population of 20 and has 15 service connections. The private, transient, non-community system has treatment capacity of gallons per day and the water source is wells.

Kingdom Come Settlement

Kingdom Come Settlement is located in Letcher County. The system serves a population of 225 and has 1 service connection. The private, non-transient, non-

community system has treatment capacity of 30,000 gallons per day and the water source is wells.

Martin Holbrook Rest & Mobile Home Park

Martin Holbrook Rest & Mobile Home Park is located in Letcher County. The system serves a population of 75 and has 10 service connections. The private, transient, non-community system has treatment capacity of 12,000 gallons per day and the water source is wells.

Oven Fork Senior Citizen Center

Oven Fork Senior Citizen Center is located in Letcher County. The system serves a population of 35 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 7,000 gallons per day and the water source is wells.

Cowen Headstart

Cowen Headstart is located in Letcher County. The system serves a population of 30 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 7,000 gallons per day and the water source is wells.

Parkway Motel Restaurant

Parkway Motel Restaurant is located in Letcher County. The system serves a population of 100 and has 1 service connection. The private, non-transient, non-community system has treatment capacity of 2,000 gallons per day and the water source is wells.

Deane Quick Stop

Deane Quick Stop is located in Letcher County. The system serves a population of 100 and has 1 service connections. The private, transient, non-community system has treatment capacity of 10,000 gallons per day and the water source is wells.

Kings Creek Senior Citizens Center

Kings Creek Senior Citizens Center is located in Letcher County. The system serves a population of 50 and has 15 service connections. The private, non-transient, non-community system has treatment capacity of 10,000 gallons per day and the water source is wells.

Isom IGA

Isom IGA is located in Letcher County. The system serves a population of 100 and has 15 service connections. The private, transient, non-community system has treatment capacity of 10,000 gallons per day and the water source is wells.

Golf Concepts, Inc

Golf Concepts, Inc is located in Letcher County. The system serves a population of 50 and has 1 service connection. The private, transient, non-community system has treatment capacity of 3,750 gallons per day and the water source is wells.

OWSLEY COUNTY

Owsley County had an estimated population of 5,327 (2,170 households) in 1999 with a projected population of 5,550 (2,450 households) in 2020. About 2/3 of the county's residents are served by public water.

Owsley County has both an adequate source and plant capacity to supply potable water to all Owsley Countians (excluding those areas that are impractical) within the next 5 years. Local officials and system employees estimate it would cost about \$2,000,000 to complete their system. This figure includes existing line upgrades, increased storage capacity, pump stations, and additional fire hydrants. This would also provide a 250,000-gallon storage tank to serve not only some residents, but an industrial park as well.

Although Owsley County currently has an adequate source of water, they could benefit from a treatment plant on Buckhorn Lake. Not only could this be a supplemental source in the future, it could immediately serve residents in the extreme southern portion of the county that is impractical for the Booneville Water and Sewer District to supply.

The Booneville Water and Sewer District is the only community water system in Owsley County: The is also one non-community system.

Booneville Water and Sewer	WSID: 0950036
System Type:	COMMUNITY
Owner Type:	MUNICIPAL
Surface Source:	SOUTH FORK KENTUCKY RIVER
Purchase Source:	
Well Source:	
Sells Water to:	
Treatment Plant Capacity (MGD):	0.86
Percent Daily Average Production:	39.00
Total Tank Storage Capacity (gallons):	484,000.00
Total Service Connections:	1,452.00
Number of Employees:	6.00
Treatment Operator Class:	2D
Distribution Operator Class:	3A
Customer Rate for 1,000 Gallons:	7.00
O/M costs 1997:	Not available
O/M costs per Service Connection:	Not available
Net Revenue 1997:	Not available
Total Water Produced 1997 (gallons):	Not available
Water Sold 1997 (gallons):	Not available
Unaccounted-for Water 1997 (%):	Not available

The Booneville Water Treatment Plant has a capacity of 864,000, and a daily average production of 275,000 gallons. Rates inside the city are \$13.50 for the first 2,000 gallons and \$14.50 for the first 2,000 gallons outside the city limits. The system has a storage capacity of 484,000 gallons. The water source is surface water from South Fork/Kentucky River.

Other Systems

Camp Brent Laneer

Camp Brent Laneer is located in Owsley County. The system serves a population of 75 and has 1 service connection. The local, transient, non-community system has treatment capacity of 8,000 gallons per day and the water source is wells.

PERRY COUNTY

Perry County had an estimated population of 31,102 (11,673 households) in 1999 with a projected population of 32,100 (13,400 households) in 2020. Public water is provided to about 60 percent of the county's residents.

The City of Hazard operates the only water treatment plant in Perry County. They currently sell wholesale water to the cities of Vicco and Buckhorn. The current source of water is not adequate to supply current needs under drought conditions, and could not supply the entire county under the best conditions. Perry County could benefit greatly from the proposed Carr Creek Water Plant, and could also be benefited by a plant on Buckhorn Lake. These two projects, along with the existing source should meet the entire county's future needs.

Perry County is served by 18 public and semi-public water systems: 3 municipal-Hazard Water Department, Vicco Water Supply, and the City of Buckhorn; 1 private community system; and 14 non-community systems.

Hazard Water Department PWSID: 0970184

System Type: COMMUNITY
Owner Type: MUNICIPAL

Surface Source: NORTH FORK KENTUCKY RIVER

Purchase Source: Well Source:

Sells Water to: VICCO WATER SUPPLY

Treatment Plant Capacity (MGD):4.00Percent Daily Average Production:66.00Total Tank Storage Capacity (gallons):8,700,000.00Total Service Connections:5,800.00Number of Employees:6.00Treatment Operator Class:3DDistribution Operator Class:4A

Customer Rate for 1,000 Gallons:Not availableO/M costs 1997:Not availableO/M costs per Service Connection:Not availableNet Revenue 1997:Not availableTotal Water Produced 1997 (gallons):Not availableWater Sold 1997 (gallons):Not availableUnaccounted-for Water 1997 (%):Not available

The City of Hazard draws its water from the North Fork of the Kentucky River. The system currently serves about 5,800 households. Additionally, they provide treated water to the Buckhorn and Vicco systems. Permitted withdrawal from the North Fork is 3.15 mgd. Plant capacity is 4 million gpd, with an average daily production of 2.7 million gallons. Storage capacity is 8.7 million gallons. Rates inside the city are \$11.74 for the first 2,000 gallons and \$17.58 outside the city. They have 6 full time employees.

The current planned expansions will just about deplete the permitted water withdrawal from the North Fork. The Hazard Water Plant does not have adequate source or capacity to serve both the northwestern and southern portions of the county.

PWSID: 0970484

vicco water Suppry	
System Type:	COMMUNITY
Owner Type:	MUNICIPAL
Surface Source:	
Purchase Source:	HAZARD MASTER METER
Well Source:	
Sells Water to:	
Treatment Plant Capacity (MGD):	0.00
Percent Daily Average Production:	0.00
Total Tank Storage Capacity (gallons):	500,000.00
Total Service Connections:	740.00
Number of Employees:	6.00
Treatment Operator Class:	2D
Distribution Operator Class:	
Customer Rate for 1,000 Gallons:	8.78
<u>O/M costs 1997:</u>	Not available
O/M costs per Service Connection:	Not available
Net Revenue 1997:	Not available

The City of Vicco purchases its water from the Hazard Water Plant. They currently purchase 150,000 gpd and provide water to about 700 households. Storage capacity is 500,000 gallons. Rates for the first 2,000 gallons are \$16.50 inside the city and \$18.63 outside the city limits. They employ 6 people.

Not available

Not available

Not available

The City of Vicco has passed a resolution of intent to form the Carr Creek Water Commission. This will provide them with the opportunity to serve the southern portion of Perry County. However, they are in need of immediate infrastructure repairs and upgrades. They have a current water loss rate of around 40%.

City of Buckhorn

Vicco Water Supply

Total Water Produced 1997 (gallons):

Unaccounted-for Water 1997 (%):

Water Sold 1997 (gallons):

The City of Buckhorn purchases its water from the City of Hazard. The city provides water to about 120 customers along with the Buckhorn School and the Buckhorn Children's Home. They are very interested in expanding services, and could even serve about 50 customers in southern Breathitt County if they had a source of water. The city has expressed an interest in the location of a treatment plant on Buckhorn Lake, which could serve several surrounding counties.

Other Systems

New Tribes Mission

New Tribes Mission is located in Perry County. The system serves a population of 60 and has 5 service connections. The private, community system has treatment capacity of 6,400 gallons per day and the water source is wells.

Christy's Dairy Bar/Restaurant

Christy's Dairy Bar/Restaurant is located in Perry County. The system serves a population of 25 and has 1 service connection. The private, transient, non-community system has treatment capacity of 80 gallons per day and the water source is wells.

Robinson Elementary School

Robinson Elementary School is located in Perry County. The system serves a population of 351 and has 2 service connections. The local, non-transient, non-community system has treatment capacity of 30,000 gallons per day and the water source is wells.

Viper Elementary School

Viper Elementary School is located in Perry County. The system serves a population of 559 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 42,000 gallons per day and the water source is wells.

Willard Elementary School

Willard Elementary School is located in Perry County. The system serves a population of 400 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 6500 gallons per day and the water source is wells.

Chaney's Restaurant

Chaney's Restaurant is located in Perry County. The system serves a population of 50 and has 15 service connections. The private, transient, non-community system has treatment capacity of 5,000 gallons per day and the water source is wells.

Leatherwood Elementary School

Leatherwood Elementary School is located in Perry County. The system serves a population of 336 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 35,000 gallons per day and the water source is wells.

Mountain Comprehensive Care Corp

Mountain Comprehensive Care Corp. is located in Perry County. The system serves a population of 90 and has 1 service connection. The private, non-transient, non-community system has treatment capacity of 8,000 gallons per day and the water source is wells

Homeplace Clinic

Homeplace Clinic is located in Perry County. The system serves a population of 75 and has 3 service connections. The private, transient, non-community system has treatment capacity of 6,000 gallons per day and the water source is wells.

Lost Creek School

Lost Creek School is located in Perry County. The system serves a population of 200 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 10,000 gallons per day and the water source is wells.

Little Folks Shop Headstart

Little Folks Shop Headstart is located in Perry County. The system serves a population of 100 and has 5 service connections. The local, non-transient, non-community system has treatment capacity of 10,080 gallons per day and the water source is wells.

Campbells BP Service

Campbells BP Service is located in Perry County. The system serves a population of 100 and has 1 service connection. The private, transient, non-community system has treatment capacity of gallons per day and the water source is wells

Penny's Country Kitchen

Penny's Country Kitchen is located in Perry County. The system serves a population of 30 and has 15 service connections. The private, transient, non-community system has treatment capacity of 5,000 gallons per day and the water source is wells

Roark's BP Food Mart

Roark's BP Food Mart is located in Perry County. The system serves a population of 100 and has 1 service connection. The private, transient, non-community system has treatment capacity of 10,000 gallons per day and the water source is wells.

Twin Rocks Bible Camp

Twin Rocks Bible Camp is located in Perry County. The system serves a population of 25 and has 8 service connections. The private, transient, non-community system has treatment capacity of gallons per day and the water source is wells.

WOLFE COUNTY

Wolfe County had an estimated population of 7,503 (2,960 households) in 1999 with a projected population of 8,750 (3,650 households) in 2020. Public water is provided to about 1/3 of the county's residents.

When a currently proposed project is complete, both the source and plant capacity will be inadequate to serve all of the remaining population. A plant upgrade could solve the problem under normal conditions, but under drought conditions the water source would likely be inadequate. Other potential sources of water include water or service provided from Lee County, or possibly from a plant located on Cave Run Lake.

Wolfe County is served by 3 public and semi-public water systems: 1 municipal system, the Campton Water Plant; 1 private community system; and 1 non-community system.

Campton Municipal Water		PWSID: 1190061
System Type:	COMMUNITY	
Owner Type:	MUNICIPAL	
Surface Source:	CAMPTON LAKE	
Purchase Source:		
Well Source:		
Sells Water to:		
Treatment Plant Capacity (MGD):	0.43	
Percent Daily Average Production:	78.00	
Total Tank Storage Capacity (gallons):	300,000.00	
Total Service Connections:	983.00	
Number of Employees:	5.00	
Treatment Operator Class:	2D	
Distribution Operator Class:	2A	
Customer Rate for 1,000 Gallons:	8.50	
O/M costs 1997:	Not available	
O/M costs per Service Connection:	Not available	
Net Revenue 1997:	Not available	
Total Water Produced 1997 (gallons):	Not available	
Water Sold 1997 (gallons):	Not available	
Unaccounted-for Water 1997 (%):	Not available	

The Campton Water Plant has 983 service connections. It has a treatment capacity of 430,000 gpd, and is expected to be at just about its peak when the current line extensions are completed. The water source is surface water from Campton Lake. The system currently has about a 25% loss rate, so some infrastructure repair or upgrades may allow more line extensions before a capacity increase or finding an additional source of water. Current storage capacity is 300,000 gallons and rates are \$17.00 for the first 2,000 gallons. They employ 5 people.

Other Systems

Campton Double Kwik

Campton Double Kwik is located in Wolfe County. The system serves a population of 25 and has 1 service connection. The private, transient, non-community system has treatment capacity of 1,875 gallons per day and the water source is wells.

Bethany Christian Mission Center

Bethany Christian Mission Center is located in Wolfe County. The system serves a population of 65 and has 1 service connection. The private, community system has treatment capacity of 8,000 gallons per day and the water source is wells.